FIRST QUARTER 2000

QUARTERLY GROUNDWATER MONITORING PROGRAM

GERMAN AUTOCRAFT
301 E. 14TH STREET, SAN LEANDRO, CALIFORNIA

Prepared For:

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I. INTRODUCTION

Environmental Testing & Management (ETM) has continued the quarterly groundwater monitoring program and related environmental activities completed during the calendar first quarter 2000 at German Autocraft located at 301 East 14th Street in the City of San Leandro, Alameda County, California (**Figure 1**). This report is submitted to the Alameda County Department of Environmental Health (ACDEH) on behalf of Mr. Seung Lee, owner of German Autocraft.

The purpose of this quarterly monitoring program is to evaluate groundwater quality in the area of five former underground fuel storage tanks (USTs) that were removed in 1990. Data accumulated from the program will be used to assess seasonal groundwater level fluctuations, changing groundwater quality conditions, and provide data which will support the development of corrective action plans at the site. The quarterly monitoring program presents a description of the groundwater monitoring activities, a compilation of groundwater quality and elevation data and a brief description of the progress of the development of corrective actions at the site.

The groundwater monitoring program involves sampling and testing of eleven (11) monitoring wells and one (1) private well located at the Ramirez residence at 141 Farrelly Drive. Installation of three (3) additional monitoring wells is pending. The schedule of the monitoring program is as follows:

Quarterly:	141 Farrelly, MW-2, MW-3, MW-8, MW-9, and MW-10
Semi-Annual:	MW-1A, MW-11, and MW-6
Annual:	MW-1, MW-4, and MW-5

II. BACKGROUND

German Autocraft is located at 301 E. 14th Street in San Leandro (see Location Map, **Figure 1**). The approximate locations of buildings, property boundaries, and adjacent streets are presented on the Site Map, **Figure 2.** For detailed descriptions of prior environmental activities at the subject site, please refer to the references section of this report for a listing of reports which have been submitted to the ACDEH.

III. WORK PERFORMED DURING FIRST QUARTER 2000

Work included groundwater level gauging and sampling, data analysis, and report preparation.

Activity highlights during this period are as follows:

- **March 18, 2000** - ETM measured groundwater elevations and sampled all wells for the project according to the scheduled monitoring program.

IV. GROUNDWATER ELEVATION AND GRADIENT

Static groundwater level elevation data collected on March 18, 2000 indicated that over the area studied, the elevation of the shallow groundwater surface ranged from 30.86 to 31.94 feet above mean sea level. The estimated groundwater flow direction was westerly (approximate gradient = 0.002 ft/ft).

Table 1 presents the recent groundwater elevation data and **Figure 3** shows estimated groundwater flow direction as interpreted from the groundwater potentiometric elevation data. **Table 2** presents historic groundwater elevation data.

The groundwater flow patterns observed this quarter is consistent with previous observations.

V. GROUNDWATER SAMPLING AND ANALYTICAL RESULTS

On March 18, 2000, groundwater samples were collected from MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-1A, and the private well at 141 Farrelly Drive following the groundwater sampling procedures presented in **Appendix A.** The groundwater samples were analyzed for TPHg, BTEX by EPA Methods 5030, 8015, and 8020 as tabulated on **Table 3.** All samples were tested by Entech Analytical Labs, Inc. of Sunnyvale, California. The laboratory report and chain-of-custody documents are included in **Appendix B.** The field sampling data sheets are presented in **Appendix C.** The quality assurance/quality control description is included in **Appendix D.** Historic groundwater chemical test data by EPA Methods 5030, 8015, and 8020 is tabulated in **Table 5.** A City of San Leandro encroachment permit is included in **Appendix E.**

Selected BTEX chemical constituents continue to exceed their respective California Drinking Water Maximum Contaminant Levels (MCLs) or Federal Action Levels (AL) **(Table 3)**.

The sample collected 3/8/00 from MW-1, located upgradient of the former gasoline tank area, contained: TPHg at 120,000 micrograms per liter (µg/L); benzene at 5,100 µg/L which exceeds its MCL of 1 µg/L; toluene at 33,000 µg/L which exceeds its MCL of 150 µg/L; ethyl benzene at 4,600 µg/L which exceeds its MCL of 700 µg/L, and; total xylenes at 24,000 µg/L which exceeds its MCL of 1,750 µg/L.

The sample collected 3/18/00 from monitoring well MW-1A, along West Broadmoor contained 6,100 µg/L of TPHg, 36 µg/L of benzene, <5 µg/L of toluene, 9.7 µg/L of ethyl benzene, and 45 µg/L of total xylenes.

The sample collected 3/18/00 from MW-2, located down gradient of the former gasoline tank area, contained 11,000 µg/L of TPHg, 790 µg/L of benzene, 14 µg/L of toluene, 520 µg/L of ethyl benzene, and 450 µg/L of total xylenes.

The sample collected 3/18/00 from monitoring well MW-3, also located down gradient of the former gasoline tank area, contained 21,000 µg/L of TPHg, 3,100 µg/L of benzene, 550 µg/L of toluene, 1,400 µg/L of ethyl benzene, and 4,100 µg/L of total xylenes.

The sample collected 3/18/00 from monitoring well MW-4, located in the former UST area, contained 44,000 µg/L of TPHg, 4,500 µg/L of benzene, 7,500 µg/L of toluene, 2,200 µg/L of ethyl benzene, and 11,000 µg/L of total xylenes.

The sample collected 3/18/00 from monitoring well MW-5 contained 660 µg/L of TPHg, 5.5 µg/L of benzene, 0.62 µg/L of toluene, 1.6 µg/L of ethyl benzene, and 1.7 µg/L of total xylenes.

The sample collected 3/8/00 from monitoring well MW-6 contained 200 µg/L of TPHg, 1.3 µg/L of benzene, <0.5 µg/L of toluene, <0.5 µg/L of ethyl benzene, and <0.5 µg/L of total xylenes.

The sample collected 3/18/00 from monitoring well MW-8 contained 1,400 µg/L of TPHg, 36 µg/L of benzene, <0.5 µg/L of toluene, 12 µg/L of ethyl benzene, and 9.3 µg/L of total xylenes.

The sample collected 3/18/00 from monitoring well MW-9 contained 17,000 µg/L of TPHg, 89 µg/L of benzene, 46 µg/L of toluene, 10 µg/L of ethyl benzene, and 600 µg/L of total xylenes.

The sample collected 3/18/00 from monitoring well MW-10 contained 3,800 µg/L of TPHg, 180 µg/L of benzene, 11 µg/L of toluene, 220 µg/L of ethyl benzene, and 120 µg/L of total xylenes.

The sample collected 3/18/00 from monitoring well MW-11 contained <50 µg/L of TPHg, <0.5 µg/L of benzene, <0.5 µg/L of toluene, <0.5 µg/L of ethyl benzene, and <0.5 µg/L of total xylenes.

The private well sampled on 3/18/00 at 141 Farrelly did not contain gasoline above detection limits as follows: <50 µg/L of TPHg, <0.5 µg/L of benzene, <0.5 µg/L of toluene, <0.5 µg/L of ethyl benzene, and <0.5 µg/L of total xylenes.

VI. DISCUSSION AND CONCLUSIONS

Selected wells' various chemical constituents continue to exceed their respective California Drinking Water Maximum Contaminant Levels (MCLs) or Federal Action Levels (AL).

Available data, including data from the March 18, 2000 monitoring events, indicate that groundwater flow patterns beneath the site are consistent with previous monitoring events for the project.

The current contaminant distribution shows the most elevated TPHG and benzene levels are near the source. The TPHG plume has moved west-northwesterly, as has the benzene plume. Chemical test data from MW-9 showed a significant rise in TPHG and benzene suggesting plume movement to the northwest. TPHG concentrations also rose in well MW-1A, however this contaminant is suspected to occur at another source.

VII. LIMITATIONS

The data, information, interpretations and recommendations contained in this report are presented to meet current suggested regulatory requirements for determining groundwater quality on the site. Environmental Testing & Mgmt. is not responsible for laboratory errors or completeness of other consultants reports, and no warranty is made or implied therein.

The conclusions and professional opinions presented herein were developed by ETM using site specific data in accordance with current regulatory guidance and the opinions expressed are subject to revisions in light of new information which may develop in the future.

VIII. REFERENCES

California Code of Regulations, Title 22, 66260.21, "Environmental Health Standards", 6/23/95.

Code of Federal Regulations, 40 CFR 260, "Hazardous Waste Management System: General, 7/1/94.

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Woodward-Clyde Consultants, *Hydrogeology of Central San Leandro and Remedial Investigation of Regional Groundwater Contamination, San Leandro Plume, San Leandro, California, Volume I*, December 23, 1993.

TABLE 1. FIRST QUARTERS 2000 GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION DATA

		MARCH 18, 2000	
WELL	CASING ELEVATION[1]	Depth to Groundwater	Groundwater Elevation
MW-1	49.49	17.57	31.92
MW-2	50.01	18.14	31.87
MW-3	49.32	17.50	31.82
MW-4	49.60	17.75	31.85
MW-5	49.57	17.63	31.94
MW-6	48.06	16.20	31.86
MW-8	49.35	17.69	31.66
MW-9	48.77	17.31	31.46
MW-10	49.92	18.66	31.26
MW-11	47.93	16.55	31.38
MW-1A	48.24	16.99	31.25
141 Farrelly	48.81	17.95	30.86

[1]Elevations in feet above mean sea level.

TABLE 2. HISTORICAL GROUNDWATER ELEVATION DATA

Elevation in Feet Above Mean Sea Level

DATE	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-8	MW-9	MW-10	MW-11	MW-1A	141 Farralley
12/21/90	19.15	-	-	-	-	-	-	-	-	-	-	-
2/10/95	29.59	29.62	29.57	-	-	-	-	-	-	-	-	-
7/7/95	26.63	26.47	26.50	-	-	-	-	-	-	-	-	-
8/10/95	25.58	25.40	25.44	-	-	-	-	-	-	-	-	-
9/11/95	24.68	24.49	24.54	-	-	-	-	-	-	-	-	-
10/2/95	24.12	23.94	24.00	-	-	-	-	-	-	-	-	-
11/7/95	23.36	23.13	23.21	-	-	-	-	-	-	-	-	-
12/8/95	22.77	22.55	22.62	-	-	-	-	-	-	-	-	-
1/12/96	24.35	24.20	24.25	-	-	-	-	-	-	-	-	-
2/12/96	29.04	29.03	29.00	-	-	-	-	-	-	-	-	-
3/12/96	31.75	31.60	31.67	-	-	-	-	-	-	-	-	-
4/13/96	29.43	29.25	29.26	-	-	-	-	-	-	-	-	-
5/14/96	27.89	27.68	27.71	-	-	-	-	-	-	-	-	-
6/20/96	27.19	26.97	27.00	-	-	-	-	-	-	-	-	-

DATE	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-8	MW-9	MW-10	MW-11	MW-1A	141 Farralley
7/26/96	25.95	25.74	25.76	-	-	-	-	-	-	-	-	-
8/19/96	25.16	24.97	25.01	-	-	-	-	-	-	-	-	-
9/17/96	24.44	24.22	24.27	-	-	-	-	-	-	-	-	-
10/21/96	23.63	23.43	23.48	-	-	-	-	-	-	-	-	-
11/27/96	24.28	24.09	24.13	-	-	-	-	-	-	-	-	-
12/27/96	28.23	28.03	28.11	-	-	-	-	-	-	-	-	-
1/28/97	33.02	32.71	32.78	-	-	-	-	-	-	-	-	-
4/25/97	27.14	26.88	26.94	-	-	-	-	-	-	-	-	-
7/17/97	24.55	24.31	24.37	-	-	-	-	-	-	-	-	-
10/21/97	22.85	22.69	22.73	-	-	-	-	-	-	-	-	-
3/10/98	34.35	34.20	34.13	-	-	-	-	-	-	-	-	-
6/6/98	30.69	30.41	30.47	-	-	-	-	-	-	-	-	-
9/30/98	25.95	25.68	25.75	-	-	-	-	-	-	-	-	-
12/30/98	25.13	24.93	24.99	25.05	25.06	25.14	24.75	24.79	24.78	24.78	24.64	-
3/13/99	29.98	29.80	29.83	29.89	29.93	29.97	29.58	29.58	29.31	29.56	29.39	28.84

DATE	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-8	MW-9	MW-10	MW-11	MW-1A	141 Farralley
9/29/99	24.39	24.12	24.20	24.27	24.26	24.38	23.93	24.05	23.80	24.03	23.89	-
12/29/99	23.75	23.52	23.60	23.64	23.64	23.75	23.36	23.45	23.23	23.43	23.29	-
3/18/00	31.92	31.87	31.82	31.85	31.94	31.86	31.66	31.46	31.26	31.38	31.25	30.86

TABLE 3. 3/18/00 GROUNDWATER CHEMICAL TEST RESULTS (EPA METHOD 8015/8020)

Locations: MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-1A, 141 Farrelly

Date Sampled: March 18, 2000 Units: µg/L

MTBE?

WELL	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-1	120,000	5,100	33,000	4,600	24,000
MW-2	11,000	790	14	520	450
MW-3	21,000	3,100	550	1,400	4,100
MW-4	44,000	4,500	7,500	2,200	11,000
MW-5	660	5.5	0.62	1.6	1.7
MW-6	200	1.3	<0.5	<0.5	<0.5
MW-8	1,400	36	<0.5	12	9.3
MW-9	17,000	89	46	10	600
MW-10	3,800	180	11	220	120
MW-11	<50	<0.5	<0.5	<0.5	<0.5
MW-1A	6,100	36	<0.5	9.7	45
141 Farrelly	<50	<0.5	<0.5	<0.5	<0.5
MCL/AL[2]	-	1	150	700	1,750

[2]Maximum Contaminant Level or Action Level as established by the State of California, Division of Drinking Water and Environmental Management, Department of Health Services "Summary, Maximum Contaminant and Action Levels" November, 1994.

TABLE 4. HISTORIC GROUNDWATER CHEMICAL TEST RESULTS (EPA METHOD 8015/8020)

Locations: MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-1A, 141 Farrelly Units: µg/L

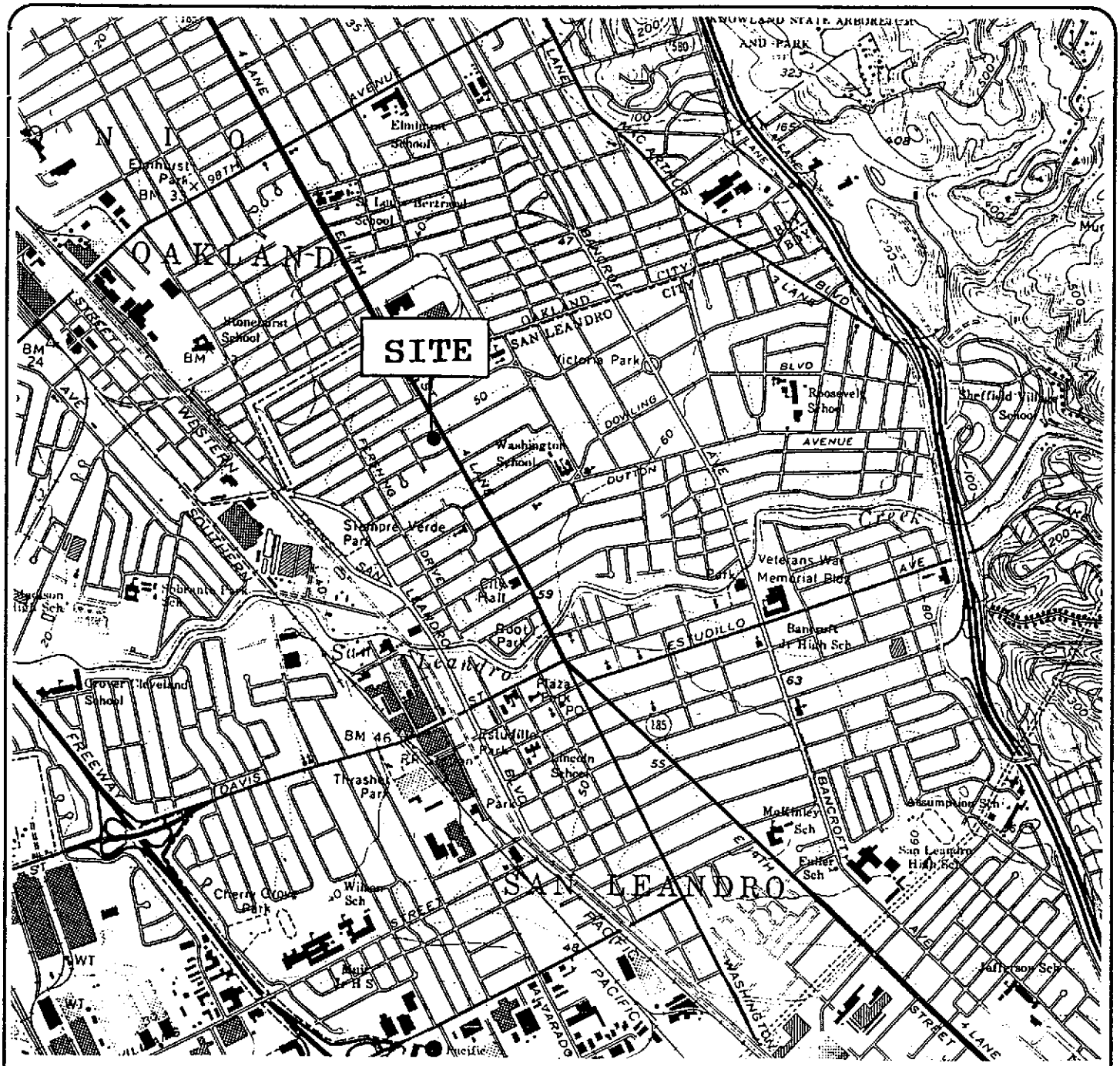
WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-1	12/31/90	51,000	2,200	1,200	<0.5	760
	1/6/95	110,000	13,000	15,000	4,800	13,000
	1/6/95	580,000	29,000	41,000	17,000	43,000
	7/6/95	49,000	8,000	17,000	1,900	9,700
	7/6/95	47,000	4,800	9,500	930	5,000
	10/2/95	120,000	16,000	36,000	3,300	17,000
	10/2/95	160,000	20,000	47,000	5,000	23,000
	1/12/96	1,100,000	11,000	18,000	15,000	51,000
	1/12/96	98,000	2,100	4,600	2,500	10,000
	4/13/96	53,000	1,300	2,900	2,100	10,000
	4/13/96	58,000	820	3,600	2,800	12,000
	7/26/96	91,000	2,900	7,200	2,900	14,000
	7/26/96	67,000	2,300	5,500	2,500	11,000
	10/21/96	210,000	4,800	17,000	2,300	15,000
	10/21/96	210,000	5,400	18,000	2,600	11,000
	1/28/97	120,000	5,600	15,000	2,100	11,000
	1/28/97	130,000	5,500	15,000	2,300	12,000

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-1	4/25/97	180,000	6,900	20,000	2,600	13,000
	4/25/97	170,000	6,500	20,000	2,500	13,000
	7/17/97	220,000	8,300	41,000	2,700	16,000
	10/21/97	240,000	9,400	33,000	3,300	22,000
	3/10/98	120,000	11,000	46,000	3,700	21,000
	6/6/98	110,000	7,600	32,000	4,800	23,000
	9/30/98	140,000	5,800	29,000	3,500	18,000
	12/30/98	78,000	5,200	24,000	3,200	19,000
	3/23/99	250,000	8,000	43,000	5,200	27,000
	9/29/99	140,000	6,100	35,000	5,400	27,000
	3/18/00	120,000	5,100	33,000	4,600	24,000
MW-2	1/6/95	980,000	9,400	5,600	19,000	42,000
	7/6/95	71,000	5,300	1,800	6,100	9,000
	10/2/95	40,000	2,900	200	2,800	3,600
	1/12/96	260,000	2,600	2,200	6,300	7,800
	4/13/96	30,000	1,900	370	2,300	2,400
	7/26/96	180,000	1,400	640	2,100	5,000
	10/21/96	62,000	2,100	<0.5	2,100	2,700
	1/28/97	46,000	1,500	94	1,800	2,000
	4/25/97	23,000	790	26	820	730
	7/17/97	95,000	2,200	<0.5	3,100	4,300
	10/21/97	31,000	2,000	<0.5	2,100	1,900
	3/10/98	19,000	730	44	820	1,000

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-2	6/6/98	16,000	670	1,100	510	1,200
	9/30/98	24,000	600	77	680	580
	12/30/98	9,300	510	96	450	480
	3/23/99	5,700	580	9.4	400	280
	9/29/99	17,000	880	240	830	1,000
	12/29/99	11,000	800	11	860	780
	3/18/00	11,000	790	14	520	450
MW-3	1/6/95	740,000	11,000	2,300	8,300	28,000
	7/6/95	86,000	12,000	8,600	4,900	19,000
	10/2/95	100,000	15,000	11,000	6,000	20,000
	1/12/96	84,000	6,500	4,100	3,200	12,000
	4/13/96	48,000	7,600	3,600	2,800	9,400
	7/26/96	62,000	6,400	3,100	3,000	11,000
	10/21/96	110,000	5,400	2,400	2,500	9,800
	1/28/97	130,000	5,500	15,000	2,300	12,000
	4/25/97	180,000	6,900	20,000	2,600	13,000
	7/17/97	69,000	5,100	1,100	1,800	8,600
	10/21/97	58,000	4,300	1,300	2,100	8,000
	3/10/98	25,000	3,000	1,300	1,100	3,700
	6/6/98	52,000	4,400	1,900	2,300	6,900
	9/30/98	42,000	4,300	1,400	1,800	6,600
	12/30/98	34,000	4,200	770	2,300	9,000
	3/23/99	44,000	3,500	1000	1,700	5,200

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-3	9/29/99	39,000	6,000	840	2,400	8,100
	12/29/99	39,000	4,600	790	2,400	8,100
	3/18/00	21,000	3,100	550	1,400	4,100
MW-4	12/30/98	12,000	1,200	1,100	290	1,400
	3/23/99	89,000	5,900	8,700	2,000	9,200
	9/29/99	48,000	5,300	6,800	1,700	7,700
	3/18/00	44,000	4,500	7,500	2,200	11,000
MW-5	12/30/98	170	1.1	<0.5	<0.5	0.83
	3/22/99	470	3.8	0.51	2.0	<0.5
	9/29/99	1,200	13	4.2	2.7	4.2
	3/18/00	660	5.5	0.62	1.6	1.7
MW-6	12/30/98	400	1.0	<0.5	<0.5	4.8
	3/22/99	390	<0.5	<0.5	<0.5	<0.5
	9/30/99	330	1.8	1.4	1.5	<0.5
	3/18/00	200	1.3	<0.5	<0.5	<0.5
MW-8	12/30/98	2,200	70	0.94	26	15
	3/23/99	2,300	34	1.1	15	13
	9/30/99	8,800	140	<50	53	<50
	12/29/99	1,900	64	1.0	22	23
	3/18/00	1,400	36	<0.5	12	9.3
MW-9	12/30/98	25,000	23	<10	180	620
	3/23/99	27,000	35	<20	600	920
	9/30/99	42,000	140	130	1,000	1,700

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
MW-9	12/29/99	1,100,000	1,200	1,300	4,300	8,700
	3/18/00	17,000	89	46	10	600
MW-10	12/30/98	6,900	130	19	140	210
	3/23/99	6,600	150	33	240	170
	9/30/99	9,300	60	38	280	150
	12/29/99	5,800	87	10	420	180
	3/18/00	3,800	180	11	220	120
MW-11	12/30/98	80	<0.5	<0.5	0.93	1.6
	3/23/99	<50	<0.5	<0.5	<0.5	<0.5
	9/30/99	94	<0.5	<0.5	<0.5	<0.5
	3/18/00	<50	<0.5	<0.5	<0.5	<0.5
MW-1A	5/30/97	12,000	18	8.7	90	540
	12/30/98	51	<0.5	<0.5	<0.5	<0.5
	3/23/99	1,800	4.0	<0.5	3.0	7.5
	3/23/99	2,200	10	0.52	3.1	7.1
	9/30/99	13,000	63	26	30	72
	3/8/00	6,100	36	<5	9.7	45
141 Farrelly	4/6/96	<50	<0.5	<0.5	<0.5	<0.5
	10/2/99	<50	<0.5	<0.5	<0.5	<0.5
	3/18/00	<50	<0.5	<0.5	<0.5	<0.5



EXPLANATION:

Scale: 1"=2000'

0 1000' 2000'

Base Map Reference: U.S.G.S. San Leandro 7.5 Minute Topographic, Quadrangle.

N

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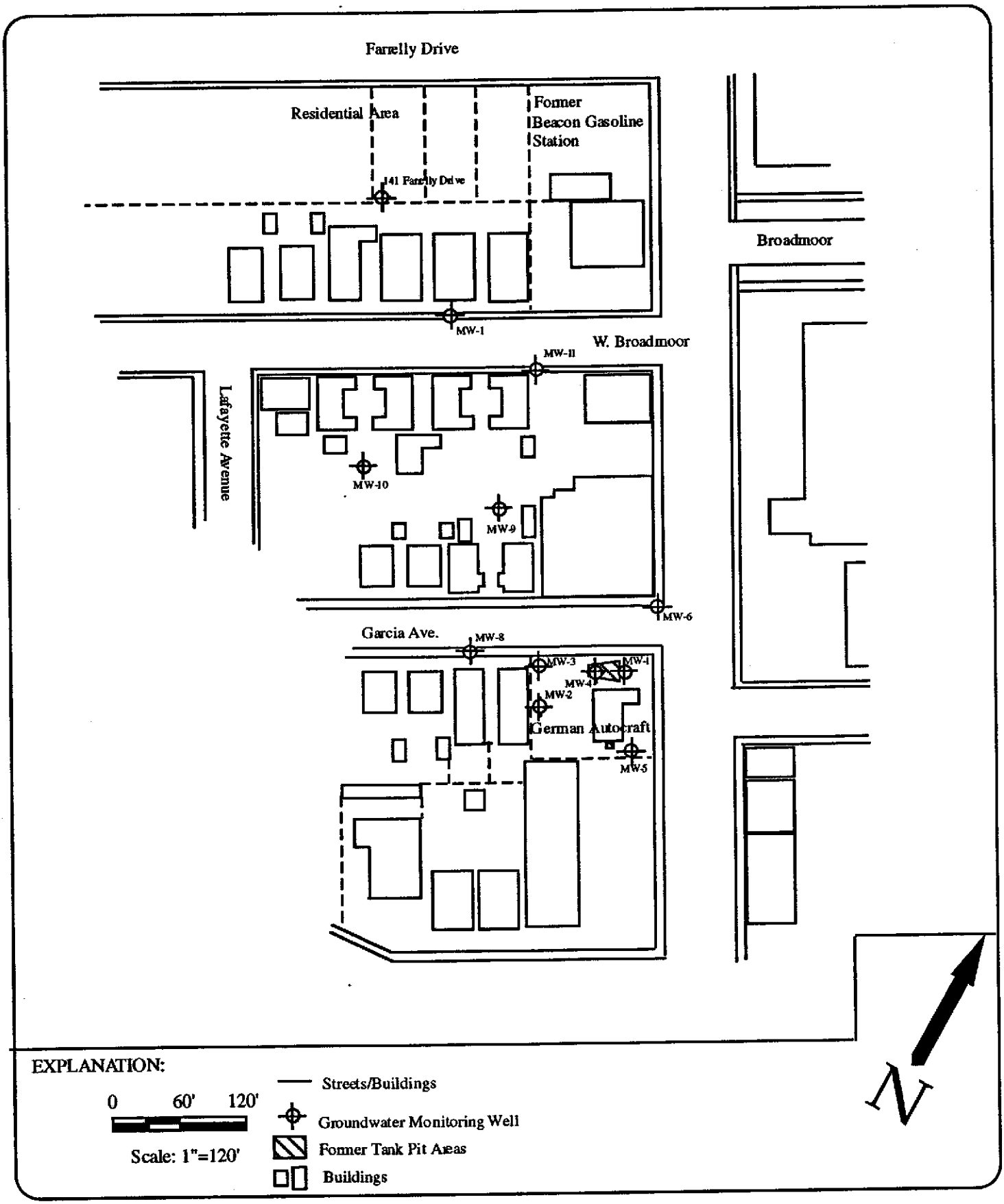
111 N. MARKET ST. SUITE 600
SAN JOSE, CALIFORNIA 95113

LOCATION MAP
German Autocraft
301 East 14th Street
San Leandro, California

Figure 1

Project No. 94-52
Date: 3/97



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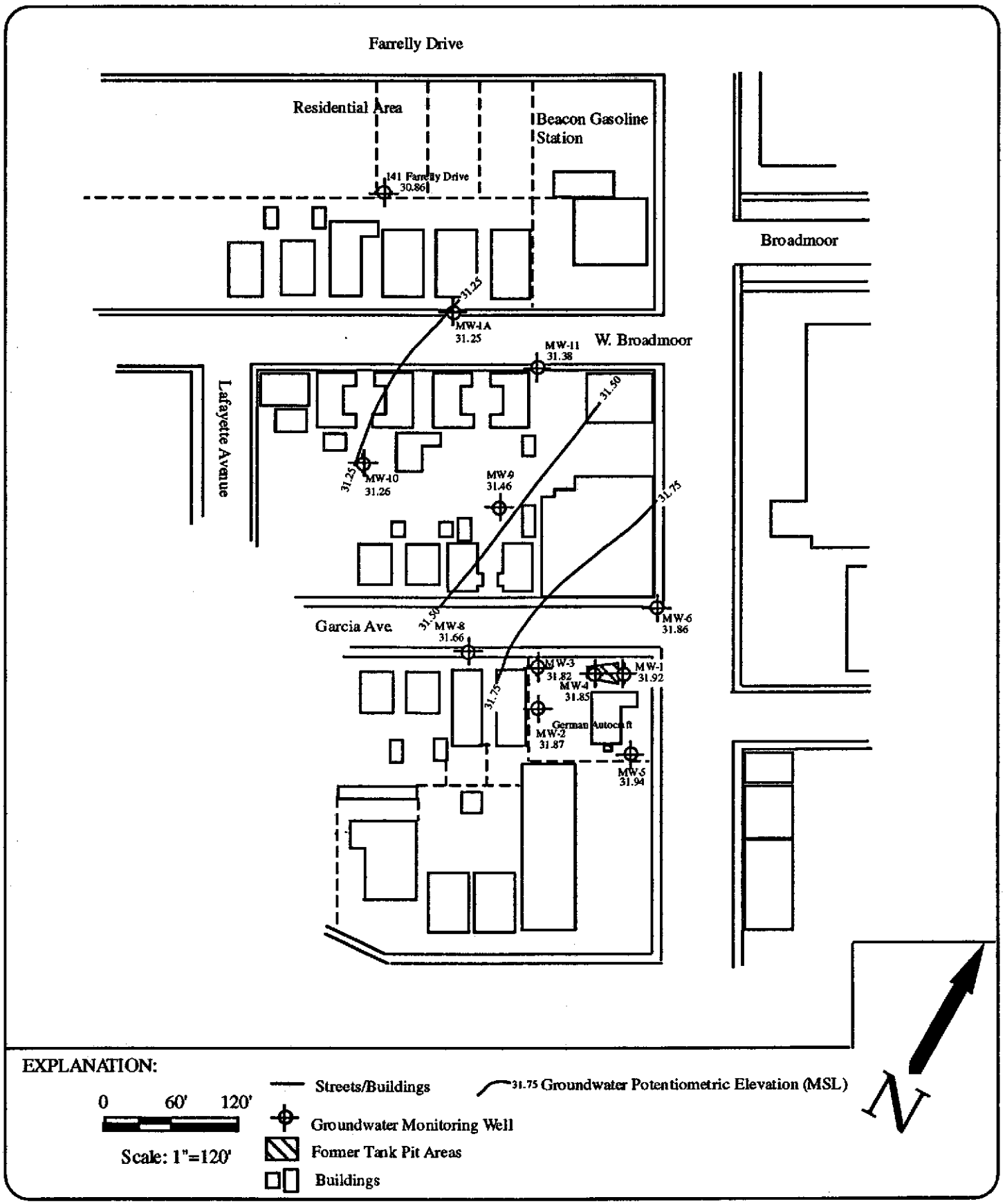
SAN JOSE, CA 95112

SITE MAP
German Autocraft
301 East 14th Street
San Leandro, California

Figure 2

Date: 7/99



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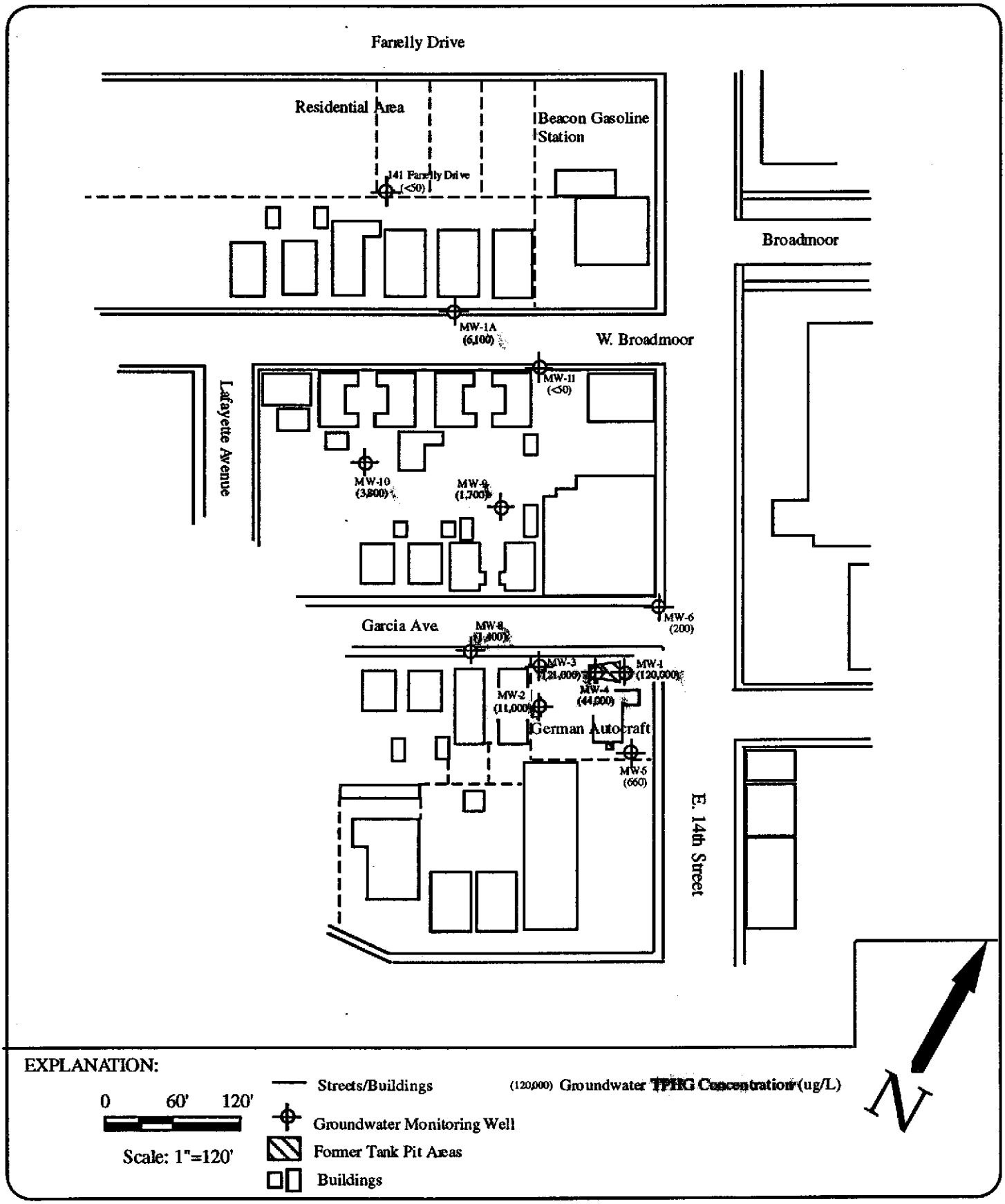
SAN JOSE, CALIFORNIA 95112
(408) 453-1800

GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION ISOCONTOUR MAP (3/18/00)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 3

Date: 2/00



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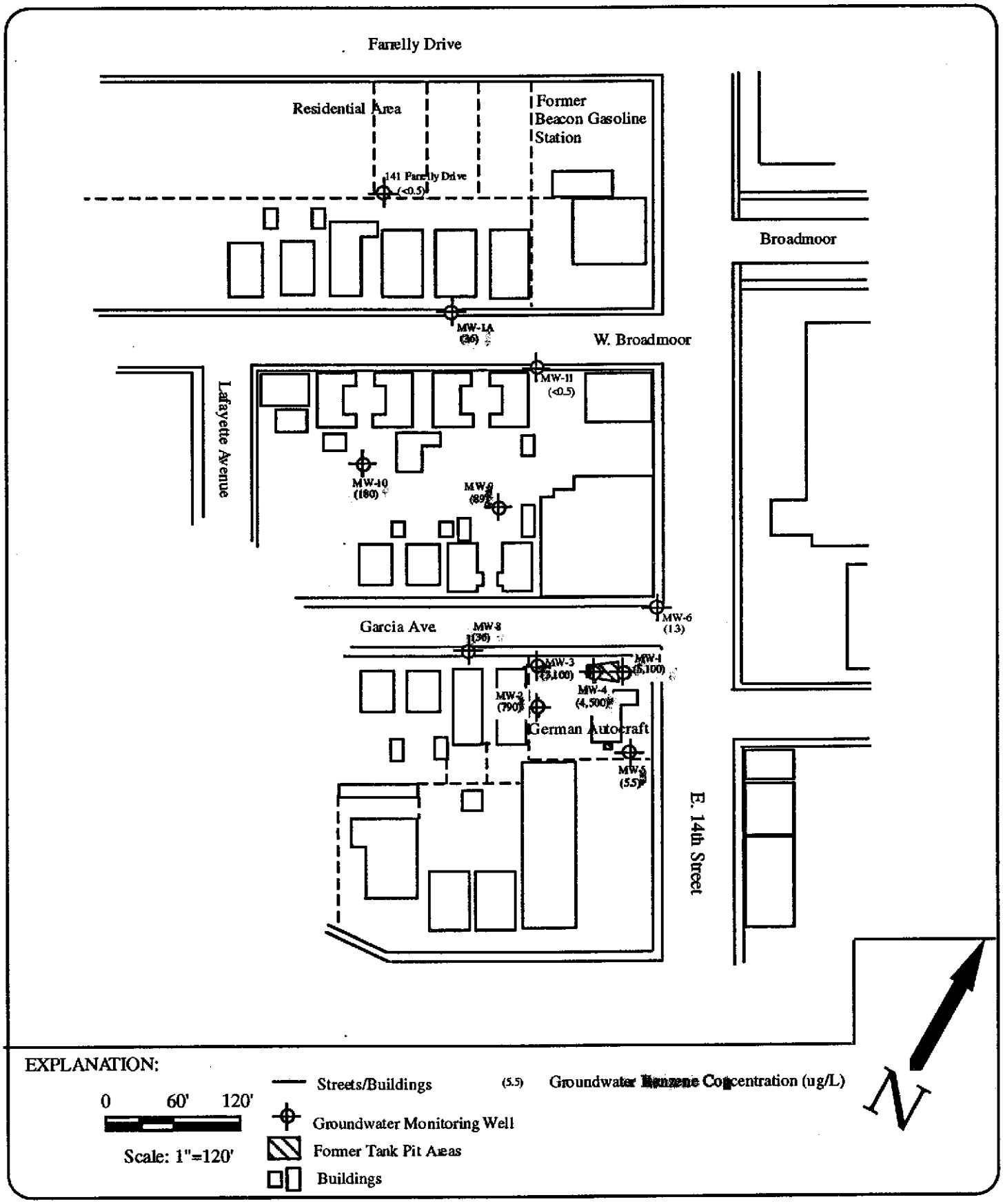
1792 ROGERS AVENUE
SAN JOSE, CA 95112
(408) 453-1800 FAX: (408) 453-1801

VICINITY MAP WITH GROUNDWATER TPHG CONCENTRATIONS (3/18/00)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 4

Date: 3/00



ENVIRONMENTAL TESTING & MGMT.
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SAN JOSE, CA 95112
(408)453-1800 FAX: (408) 453-1801

VICINITY MAP WITH GROUNDWATER
BENZENE CONCENTRATIONS (3/18/00)
German Autocraft
301 East 14th Street
San Leandro, California

Figure 5

Date: 3/00

APPENDIX A: FIELD SAMPLING AND GAUGING PROCEDURES

GROUNDWATER LEVEL MEASURING AND SAMPLING:

Sampling procedures commenced with measuring static water levels in monitoring wells using an electronic water level indicator accurate to 0.01 inch. Groundwater samples were collected using Teflon™ or stainless steel bailers. The bailers were cleaned prior to lowering into the groundwater by washing with Liquinox or laboratory grade detergent, rinsing with tap water, and drying. Floating product thickness was measured by gently lowering a bailer or preferably an interface sampler into the well casing. The liquid level in the sampler was allowed to equilibrate with the liquid level in the well. After raising the sampler, the thickness of floating product, if present, was measured in the transparent sampler with a ruler or noting the presence of sheen and odor. The wells were then purged a minimum of four well volumes or until the parameters of temperature, conductance, and pH stabilized.

Groundwater samples were collected by gently pouring from the bailer into a 40-milliliter vial until a positive meniscus formed at the top of the vial, each vial was capped, and visually inspected to make sure no bubbles were present. Sample containers are labeled for sampling point reference and chilled on ice immediately after collection. Chain-of-custody documentation was maintained until the samples were received by the laboratory.

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

March 27, 2000

Tom Price
Environmental Testing & Management
1792 Rogers Avenue
San Jose, CA 95112

Order: 19652
Project Name:
Project Number: GA
Project Notes:

Date Collected: 3/18/00
Date Received: 3/20/00
P.O. Number:

On March 20, 2000, samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix	Test	Method
Liquid	BTEX	EPA 8020
	TPH as Gasoline	EPA 8015 MOD. (Purgeable)

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,

Michelle L. Anderson
Lab Director

Entech Analytical Labs, Inc.

CA ELAP# 2346

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Environmental Testing & Management
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 3/27/00
Date Received: 3/20/00
Project Name:
Project Number: GA
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19652 **Lab Sample ID:** 19652-001 **Client Sample ID:** 141Farelly

Sample Time: **Sample Date:** 3/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L		3/22/00	WGC4000321	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L		3/22/00	WGC4000321	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L		3/22/00	WGC4000321	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	µg/L		3/22/00	WGC4000321	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	118	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L		3/22/00	WGC4000321	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	126	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

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Environmental Testing & Management
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 3/27/00
Date Received: 3/20/00
Project Name:
Project Number: GA
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19652 **Lab Sample ID:** 19652-002 **Client Sample ID:** MW-1

Sample Time: **Sample Date:** 3/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	5100		200	0.5	100	µg/L		3/21/00	WGC4000321	EPA 8020
Toluene	33000		200	0.5	100	µg/L		3/21/00	WGC4000321	EPA 8020
Ethyl Benzene	4600		200	0.5	100	µg/L		3/21/00	WGC4000321	EPA 8020
Xylenes, Total	24000		200	0.5	100	µg/L		3/21/00	WGC4000321	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	88	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	120000		200	50	10000	µg/L		3/21/00	WGC4000321	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	100	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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San Jose, CA 95112
Attn: Tom Price

Date: 3/27/00
Date Received: 3/20/00
Project Name:
Project Number: GA
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19652 **Lab Sample ID:** 19652-003 **Client Sample ID:** MW-2

Sample Time: **Sample Date:** 3/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	790		20	0.5	10	µg/L		3/22/00	WGC4000322	EPA 8020
Toluene	14		20	0.5	10	µg/L		3/22/00	WGC4000322	EPA 8020
Ethyl Benzene	520		20	0.5	10	µg/L		3/22/00	WGC4000322	EPA 8020
Xylenes, Total	450		20	0.5	10	µg/L		3/22/00	WGC4000322	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	77	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	11000		20	50	1000	µg/L		3/22/00	WGC4000322	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	73	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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Attn: Tom Price

Date: 3/27/00
Date Received: 3/20/00
Project Name:
Project Number: GA
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19652 **Lab Sample ID:** 19652-004 **Client Sample ID:** MW-3

Sample Time: **Sample Date:** 3/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	3100		20	0.5	10	µg/L		3/22/00	WGC4000322	EPA 8020
Toluene	550		20	0.5	10	µg/L		3/22/00	WGC4000322	EPA 8020
Ethyl Benzene	1400		20	0.5	10	µg/L		3/22/00	WGC4000322	EPA 8020
Xylenes, Total	4100		20	0.5	10	µg/L		3/22/00	WGC4000322	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	79	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	21000		20	50	1000	µg/L		3/22/00	WGC4000322	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	84	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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San Jose, CA 95112
Attn: Tom Price

Date: 3/27/00
Date Received: 3/20/00
Project Name:
Project Number: GA
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19652 **Lab Sample ID:** 19652-005 **Client Sample ID:** MW-4

Sample Time: **Sample Date:** 3/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	4500		50	0.5	25	µg/L		3/21/00	WGC4000321	EPA 8020
Toluene	7500		50	0.5	25	µg/L		3/21/00	WGC4000321	EPA 8020
Ethyl Benzene	2200		50	0.5	25	µg/L		3/21/00	WGC4000321	EPA 8020
Xylenes, Total	11000		50	0.5	25	µg/L		3/21/00	WGC4000321	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	95	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	44000		50	50	2500	µg/L		3/21/00	WGC4000321	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	97	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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Attn: Tom Price

Date: 3/27/00
Date Received: 3/20/00
Project Name:
Project Number: GA
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19652 **Lab Sample ID:** 19652-006 **Client Sample ID:** MW-5

Sample Time: **Sample Date:** 3/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	5.5		1	0.5	0.5	µg/L		3/21/00	WGC4000321	EPA 8020
Toluene	0.62		1	0.5	0.5	µg/L		3/21/00	WGC4000321	EPA 8020
Ethyl Benzene	1.6		1	0.5	0.5	µg/L		3/21/00	WGC4000321	EPA 8020
Xylenes, Total	1.7		1	0.5	0.5	µg/L		3/21/00	WGC4000321	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	86	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	660		1	50	50	µg/L		3/21/00	WGC4000321	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	102	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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Attn: Tom Price

Date: 3/27/00
Date Received: 3/20/00
Project Name:
Project Number: GA
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19652 **Lab Sample ID:** 19652-007 **Client Sample ID:** MW-6

Sample Time: **Sample Date:** 3/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	1.3		1	0.5	0.5	µg/L		3/21/00	WGC4000321	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L		3/21/00	WGC4000321	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L		3/21/00	WGC4000321	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	µg/L		3/21/00	WGC4000321	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	87	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	200		1	50	50	µg/L		3/21/00	WGC4000321	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	93	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

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San Jose, CA 95112
Attn: Tom Price

Date: 3/27/00
Date Received: 3/20/00
Project Name:
Project Number: GA
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19652 **Lab Sample ID:** 19652-008 **Client Sample ID:** MW-8

Sample Time: **Sample Date:** 3/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	36		1	0.5	0.5	µg/L		3/21/00	WGC4000321	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L		3/21/00	WGC4000321	EPA 8020
Ethyl Benzene	12		1	0.5	0.5	µg/L		3/21/00	WGC4000321	EPA 8020
Xylenes, Total	9.3		1	0.5	0.5	µg/L		3/21/00	WGC4000321	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	75	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	1400		1	50	50	µg/L		3/21/00	WGC4000321	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	91	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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Environmental Testing & Management
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 3/27/00
Date Received: 3/20/00
Project Name:
Project Number: GA
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19652 **Lab Sample ID:** 19652-009 **Client Sample ID:** MW-9

Sample Time: **Sample Date:** 3/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	89		10	0.5	5	µg/L		3/22/00	WGC4000322	EPA 8020
Toluene	46		10	0.5	5	µg/L		3/22/00	WGC4000322	EPA 8020
Ethyl Benzene	10.0		10	0.5	5	µg/L		3/22/00	WGC4000322	EPA 8020
Xylenes, Total	600		10	0.5	5	µg/L		3/22/00	WGC4000322	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	87	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	17000		10	50	500	µg/L		3/22/00	WGC4000322	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	66	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

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Environmental Testing & Management
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 3/27/00
Date Received: 3/20/00
Project Name:
Project Number: GA
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19652 **Lab Sample ID:** 19652-010 **Client Sample ID:** MW-10

Sample Time: **Sample Date:** 3/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	180		5	0.5	2.5	µg/L		3/22/00	WGC4000322	EPA 8020
Toluene	11		5	0.5	2.5	µg/L		3/22/00	WGC4000322	EPA 8020
Ethyl Benzene	220		5	0.5	2.5	µg/L		3/22/00	WGC4000322	EPA 8020
Xylenes, Total	120		5	0.5	2.5	µg/L		3/22/00	WGC4000322	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	56	65 - 135

Comment: Surrogate recovery out of control limits due to matrix interference

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	3800		5	50	250	µg/L		3/22/00	WGC4000322	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	55	65 - 135

Comment: Surrogate recovery out of control limits due to matrix interference

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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Environmental Testing & Management
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San Jose, CA 95112
Attn: Tom Price

Date: 3/27/00
Date Received: 3/20/00
Project Name:
Project Number: GA
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19652 **Lab Sample ID:** 19652-011 **Client Sample ID:** MW-11

Sample Time: **Sample Date:** 3/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L		3/21/00	WGC4000321	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L		3/21/00	WGC4000321	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L		3/21/00	WGC4000321	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	µg/L		3/21/00	WGC4000321	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	104	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L		3/21/00	WGC4000321	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	111	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Environmental Testing & Management
1792 Rogers Avenue
San Jose, CA 95112
Attn: Tom Price

Date: 3/27/00
Date Received: 3/20/00
Project Name:
Project Number: GA
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 19652 **Lab Sample ID:** 19652-012 **Client Sample ID:** MW-1A

Sample Time: **Sample Date:** 3/18/00 **Matrix:** Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	36		10	0.5	5	µg/L		3/21/00	WGC4000321	EPA 8020
Toluene	ND		10	0.5	5	µg/L		3/21/00	WGC4000321	EPA 8020
Ethyl Benzene	9.7		10	0.5	5	µg/L		3/21/00	WGC4000321	EPA 8020
Xylenes, Total	45		10	0.5	5	µg/L		3/21/00	WGC4000321	EPA 8020

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	76	65 - 135

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	6100		10	50	500	µg/L		3/21/00	WGC4000321	EPA 8015 MOD. (Purgeable)

Surrogate	Surrogate Recovery	Control Limits (%)
aaa-Trifluorotoluene	89	65 - 135

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography
Laboratory Control Sample

QC Batch #: WGC4000321
Matrix: Liquid
Units: µg/Liter

Date Analyzed: 03/21/00
Quality Control Sample: Blank Spike

PARAMETER	Method #	MB µg/Liter	SA µg/Liter	SR µg/Liter	SP µg/Liter	**SP % R**	SPD µg/Liter	**SPD %R**	% RPD	QC LIMITS RPD	QC LIMITS %R
Benzene	8020	<0.50	4.7	ND	5.0	**107**	5.0	**105**	1.1	25	70-130
Toluene	8020	<0.50	29	ND	32	**109**	30	**102**	6.8	25	70-130
Ethyl Benzene	8020	<0.50	5.5	ND	6.1	**110**	5.7	**103**	6.6	25	70-130
Xylenes	8020	<0.50	32	ND	35	**111**	33	**105**	5.9	25	70-130
Gasoline	8015	<50.0	467	ND	460	**99**	467	**100**	1.4	25	70-130
aaa-TFT(S.S.)-FID	8020			120%	108%		118%				65-135
aaa-TFT(S.S.)-PID	8015			109%	106%		108%				65-135

Definition of Terms:

na: Not Analyzed in QC batch
MB: Method Blank
SA: Spike Added
SR: Sample Result
RPD(%): Duplicate Analysis - Relative Percent Difference
SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike % Recovery
nc: Not Calculated

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography
Laboratory Control Sample

QC Batch #: WGC4000322
Matrix: Liquid
Units: µg/Liter

Date Analyzed: 03/22/00
Quality Control Sample: Blank Spike

PARAMETER	Method #	MB µg/Liter	SA µg/Liter	SR µg/Liter	SP µg/Liter	**SP % R**	SPD µg/Liter	**SPD %R**	% RPD	QC LIMITS RPD	QC LIMITS %R
Benzene	8020	<0.50	4.7	ND	4.7	**100**	4.6	**98**	1.8	25	70-130
Toluene	8020	<0.50	29	ND	30	**103**	30	**102**	1.5	25	70-130
Ethyl Benzene	8020	<0.50	5.5	ND	5.8	**105**	5.6	**101**	3.7	25	70-130
Xylenes	8020	<0.50	32	ND	33	**105**	33	**106**	0.9	25	70-130
Gasoline	8015	<50.0	467	ND	476	**102**	476	**102**	0.1	25	70-130
aaa-TFT(S.S.)-FID	8020			111%	108%		110%				65-135
aaa-TFT(S.S.)-PID	8015			107%	106%		106%				65-135

Definition of Terms:

na: Not Analyzed in QC batch
MB: Method Blank
SA: Spike Added
SR: Sample Result
RPD(%): Duplicate Analysis - Relative Percent Difference
SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike % Recovery
nc: Not Calculated

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • Telephone: (408) 735-1550 (800) 287-1799 • Fax: (408) 735-1554

Chain of Custody/Analysis Work Order

Client: ENVTEST MGMT
Address: 1792 Rogers Ave
San Jose, CA 95112
Contact: Tom Price
Telephone #: (408) 453-1800
Date Received:
Turn Around: Std

Project ID: GA
Purchase Order #:

Sampler/Company: Telephone #:

Special Instructions/Comments

LAB USE ONLY

Samples arrived chilled and intact:
Yes No
Notes:

19652

Lab #	Sample ID	Grab/ Composite	Matrix	Date Collected	Time Collected	Pres.	Sample Container	Requested Analysis: TPHg/ BTEX
001	141 Fardly	G	W	3/18/00		HCl/ Unpres	4-40ml VOAs	✓
002	MW-1							✓
003	MW-2							✓
004	MW-3							✓
005	MW-4							✓
006	MW-5							✓
007	MW-6							✓
008	MW-8							✓

Relinq. By: Tom Price	Received By: T. Ou	Date 3/20/00	Time 12:45
Relinq. By:	Received By: T. Ou	Date 3/20/00	Time 13:24
Relinq. By:	Received By: Les Lodgy	Date 3/20/00	Time 1324

00 MAR 20 13:24

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • Telephone: (408) 735-1550 (800) 287-1799 • Fax: (408) 735-1554

Chain of Custody/Analysis Work Order

Client: ENV. TEST MGMT
Address: 1792 ROGERS AVE
SAN JOSE CA 95112
Contact: Tom Price
Telephone #: (408) 453-1800
Date Received:
Turn Around: Std -

Project ID: GA
Purchase Order #:

Sampler/Company: Telephone #:

Special Instructions/Comments

LAB USE ONLY

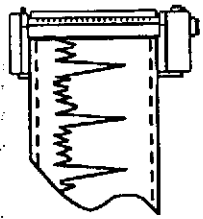
Samples arrived chilled and intact:
Yes No
Notes:

19652

Lab #	Sample ID	Grab/ Composite	Matrix	Date Collected	Time Collected	Pres.	Sample Container	Requested Analysis: TPHgBTEX
009	MW-9	G	W	3/18/00		HCl Chill	40 ml VOAs	✓
010	MW-10	↓	↓	↓		↓	↓	✓
011	MW-11							✓
012	MW-1A							✓

Relinq. By: Tom Price	Received By: T. O.	Date 3/20/00	Time 12:55
Relinq. By:	Received By: T. O.	Date 3/20/00	Time 13:24
Relinq/ By:	Received By: Leo Rodriguez	Date 3/20/00	Time 13:24

00 MAR 20 13:



ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453-1800 FAX: 408.453.1801

Date: 3-18-00 Project Name: GA

Project No.: — Well No./Description: MW-1

Depth of Well: 37.2 1 Well Volume: 1.9

Depth to Water: 17.51 4 Well Volumes: _____

Casing Diameter: __ 2" __ 4" Actual Volume Purged: _____

37.2
17.51
19.7

Calculations:

2" - * 0.1632
4" - * 0.653

Purge Method: ✓ Bailer ___ Displacement Pump ___ Impinger/Vacuum ___

Sample Method: ✓ Bailer ___ Other Specify: _____

Sheen: ✓ No ___ Yes, Describe _____

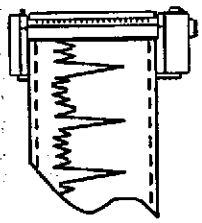
Odor: ___ No ___ Yes, Describe _____

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
4:00	1.9	7.0	68	0.7E-3	TAN
4:05	3.8	6.7	6.7	1.1E-3	TAN
4:10	5.7	6.6	6.6	1.1E3	TAN

Remarks: _____

Sampler: Gregory M Peters



ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453-1800 FAX: 408.453.1801

Date: 3/18/00 Project Name: GA

Project No.: ____ Well No./Description: MW-1A

Depth of Well: 33.45 1 Well Volume: 2.5

Depth to Water: 16.99 3 Well Volumes: 7.5 gallons

Casing Diameter: __ 2" __ 4" Actual Volume Purged: ____

Calculations:

2" - * 0.1632
4" - * 0.653

3 16
16
,96
,256

Purge Method: ✓ Bailer ___ Displacement Pump ___ Impinger/Vacuum

Sample Method: ✓ Bailer ___ Other Specify: ____

Sheen: ✓ No ___ Yes, Describe ____

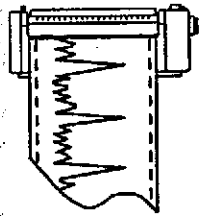
Odor: ___ No X Yes, Describe light HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
1032	2.5	7.6	76	1.2E-3	tan
1037	5.0	7.5	73	1.2E3	"
	7.5	7.2	72	1.2E3	"

Remarks: ____

Sampler: ____



ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453-1800 FAX: 408.453.1801

Date: 3-18-00 Project Name: GA

Project No.: — Well No./Description: MW2

Depth of Well: 33.7 1 Well Volume: 2.4

Depth to Water: 18.14 4 Well Volumes: _____

Casing Diameter: __ 2" __ 4" Actual Volume Purged: _____

Calculations:

33.7
18.14
15.64

2" - * 0.1632
4" - * 0.653

Purge Method: ✓ Bailer ___ Displacement Pump ___ Impinger/Vacuum ___

Sample Method: ✓ Bailer ___ Other Specify: _____

Sheen: ___ No ✓ Yes, Describe light sheen

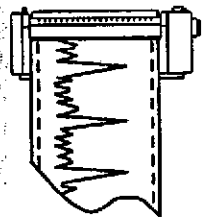
Odor: ___ No ✓ Yes, Describe HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
4:30	2.4	7.0	6.6	1.8E-3	Gray
4:36	4.8	7.0	6.5	1.8E-3	Gray
4:40	7.2	7.0	6.5	1.8E-3	Gray

Remarks: _____

Sampler: Gregory McPeters



ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453-1800 FAX: 408.453.1801

Date: 3-18-00 Project Name: GA

Project No.: ✓ Well No./Description: MW3

Depth of Well: 34.9 1 Well Volume: 1.7

Depth to Water: 17.5 4 Well Volumes: _____

Casing Diameter: __2" __4" Actual Volume Purged: _____

Calculations: 34.9 − 17.5 = 17.4

2" - * 0.1632
4" - * 0.653

Purge Method: ✓Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: ✓Bailer ___ Other Specify: _____

Sheen: ✓No ___ Yes, Describe _____

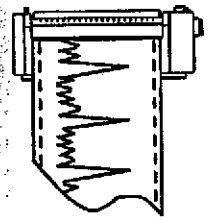
Odor: ___ No ✓Yes, Describe _____

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
4:45	1.7	7.1	65	1.2	GRAY
5:80	3.4	7.0	6.5	1.1	GRAY
6.05	10.2	7.0	6.5	1.1	GRAY

Remarks: _____

Sampler: Gregory McPeters



ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453-1800 FAX: 408.453.1801

Date: 3-16-00 Project Name: GA

Project No.: — Well No./Description: MW4

Depth of Well: 34.30 1 Well Volume: 2.7

Depth to Water: 17.79 4 Well Volumes: _____

Casing Diameter: __ 2" __ 4" Actual Volume Purged: _____

Calculations:

34.30
-17.79
16.51

2" - * 0.1632
4" - * 0.653

Purge Method: ✓ Bailer ___ Displacement Pump ___ Impinger/Vacuum ___

Sample Method: ✓ Bailer ___ Other Specify: _____

Sheen: ___ No ✓ Yes, Describe _____

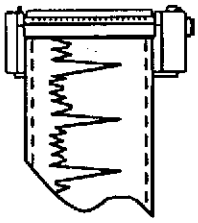
Odor: ___ No ✓ Yes, Describe HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
5:10	2.7	7.0	65	1.8	Gray
5:15	5.4	7.1	65	1.8	Gray

Remarks: _____

Sampler: Gregory M Peters



ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453-1800 FAX: 408.453.1801

Date: 3-18-00 Project Name: GM

Project No.: — Well No./Description: MW5

Depth of Well: 30.10 1 Well Volume: 2.0

Depth to Water: 17.63 4 Well Volumes: _____

Casing Diameter: __2" __4" Actual Volume Purged: _____

Calculations: 30.10 − 17.63 = 13.53 × 1.6 × 13

2" - * 0.1632
4" - * 0.653

Purge Method: ✓Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: ✓Bailer ___ Other Specify: _____

Sheen: ✓No ✓Yes, Describe _____

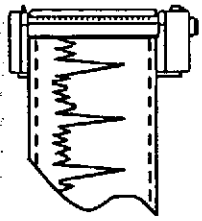
Odor: ___No ✓Yes, Describe HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
1:30	2.0	7.2	72	1.5E-3	Tan
1:45	4.0	7.0	73	1.5E-3	Tan
2:00	6.0	7.0	73	1.5E-3	Tan

Remarks: _____

Sampler: Gregory McPeters



ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453-1800 FAX: 408.453.1801

Date: 3-18-00 Project Name: GA

Project No.: — Well No./Description: MW6

Depth of Well: 33.2 1 Well Volume: 2.7

Depth to Water: 16.20 4 Well Volumes: _____

Casing Diameter: __ 2" __ 4" Actual Volume Purged: _____

Calculations:

33.20
16.20
17.00

2" - * 0.1632
4" - * 0.653

Purge Method: ✓ Bailer ___ Displacement Pump ___ Impinger/Vacuum ___

Sample Method: ✓ Bailer ___ Other Specify: _____

Sheen: ✓ No ___ Yes, Describe _____

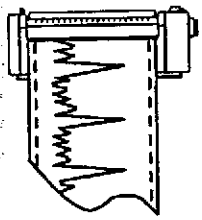
Odor: ___ No ✓ Yes, Describe HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
2:30	2.7	7.1	73	12E-3	TAN
2:35	5.4	7.0	74	1.3E3	TAN
2:45	16.2	7.1	7.1	13E3	TAN

Remarks: _____

Sampler: Gregory McPeters



ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453-1800 FAX: 408.453.1801

Date: 3-16-00 Project Name: GA

Project No.: - Well No./Description: MW-8

Depth of Well: 33.2 1 Well Volume: 1.6

Depth to Water: 17.69 4 Well Volumes: _____

Casing Diameter: __2" __4" Actual Volume Purged: _____

Calculations: 33.20 − 17.69 = 16.69

2" - * 0.1632
4" - * 0.653

Purge Method: ✓Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: ✓Bailer ___ Other Specify: _____

Sheen: ✓No ___ Yes, Describe _____

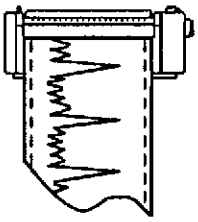
Odor: ___ No ✓Yes, Describe HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
315	1.6	7.8	6.9	1.0E-3	TAN
320	3.2	7.1	6.9	1.0E-3	TAN
325		7.0	6.9	1.0E3	TAN

Remarks: _____

Sampler: Christy McPeters



ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453-1800 FAX: 408.453.1801

Date: 3-18-00 Project Name: GA

Project No.: — Well No./Description: MW-9

Depth of Well: 34.30 1 Well Volume: 3.7

Depth to Water: 17.31 4 Well Volumes: _____

Casing Diameter: __2" __4" Actual Volume Purged: _____

Calculations: 34.30
17.31
17.01

2" - * 0.1632
4" - * 0.653

Purge Method: ✓Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: ✓Bailer ___Other Specify: _____

Sheen: ✓No ___Yes, Describe _____

Odor: ___No ✓Yes, Describe HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
12.30	34	7.3	84	12E-3	Tan
12.35	7.4	7.2	77	1.3E-3	Tan
12.40	22.2	7.1	77	1.3E-3	Tan

Remarks: _____

Sampler: Gregory McPeters

ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453.1800 FAX: 408.453.1801

Date: 3-18-00 Project Name: GA

Project No.: — Well No./Description: MW-10

Depth of Well: 38.90 1 Well Volume: 3.2

Depth to Water: 18.66 4 Well Volumes: _____

Casing Diameter: __ 2" __ 4" Actual Volume Purged: _____

Calculations:

2" - * 0.163 gal/ft.
4" - * 0.653

38.90
18.66
20.24

0.16 gal/ft * 20 ft = 3.2 gal

Purge Method: ✓ Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: ✓ Bailer ___ Other Specify: _____

Sheen: ___ No ✓ Yes, Describe _____

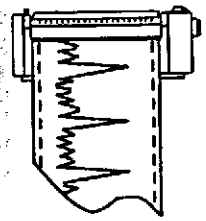
Odor: ___ No ✓ Yes, Describe HC

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
11:35	3.2	7.2	78	1.463	TAN
11:45	6.4	7.1	76	1-4-E-3	TAN
12:00	9.8	7.0	74	1-3-E-3	TAN

Remarks: _____

Sampler: Gregory McPeters



ENVIRONMENTAL TESTING & MGMT.
1792 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
408.453-1800 FAX: 408.453.1801

Date: 3/18/00 Project Name: _____

Project No.: _____ Well No./Description: MW-11

Depth of Well: 34.3 1 Well Volume: ~2.5

Depth to Water: 16.55 4 Well Volumes: _____

Casing Diameter: X 2" __4" Actual Volume Purged: _____

Calculations: N/A

2" - * 0.1632
4" - * 0.653

Purge Method: X Bailer ___Displacement Pump ___Impinger/Vacuum ___

Sample Method: X Bailer ___ Other Specify: _____

Sheen: X No ___ Yes, Describe _____

Odor: ___ No ___ Yes, Describe _____

Field Measurements:

Time	Volume	pH	Temp.	E.C.	Color
1110	2.5	7.3	72	1.3E3	brown
1105	5.0	7.2	70	1.0E3	"
1110	7.5	7.2	69	1.3E3	"

Remarks: _____

Sampler: Tom Price

APPENDIX D: QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

The quality assurance/quality control measures used for groundwater sampling conducted on 3/18/00 included the following:

- Groundwater samples were collected in duplicate 40 milliliter vials.

Service No._____

CITY OF SAN LEANDRO
APPLICATION TO PERFORM WORK IN THE PUBLIC RIGHT-OF-WAY

00143
Permit Number
3-17-00
Date Approved

Work Site: W Broadmoor/Garcia Ave

Applicant: Name ENVTest Mgmt Address 1792 Rogers Ave Tel. 408 453-180

Owner: Name Mr. Lee Address 301E 14th St San Leandro Tel. 510 638 5473

Purpose of Permit:

☐ Utility ☐ Street Excavation ☐ Curb, Gutter Sidewalk, Driveway ☑ Other _____

Detailed Description and Dimensions of Work:

Open 14) well boxes for gauging groundwater depth / collect samples.

Plan Submitted: Yes ✓ No _____ Profile Submitted Yes _____ No _____

Date Work to be Started: 3/18/00 Date Work to be Completed by: 4/1/00

Building Permit No._____ State Encroachment Permit No._____

Oro Loma Permit No. _____ Alameda County Flood Control Permit No. _____

Compliance with State Labor Code: In accordance with Section 3800

☐ Applicant has on file, with the City of San Leandro, evidence that workman's compensation insurance is carried.

☑ Applicant will not employ anyone so as to become subject to the workman's compensation laws of California.

Statement of State Contractor's License: In accordance with Section 7031.5 of the State Business and Professions Code.

☑ Applicant has State License No. 716002, Class A in full force and effect.

☐ Applicant is exempt from the State Contractor's License Law for the following reason(s):

By the application and acceptance of this permit, the undersigned intending to be legally bound does hereby agree that all work performed will be in accordance with all applicable provisions of this permit and all regulations, provisions, and specifications as adopted by the City. Further, the undersigned agrees that this permit is to serve as a guaranty for payment of all permit and/or inspection charges as billed by the City. Any misrepresentation of information requested from the applicant on this form shall make this permit null and void.

Signature: Tom O'Brien Date: 3/17/00

PLEASE CALL 577-3308 FOR INSPECTIONS

SPECIAL PROVISIONS

Backfill Required Applicant will secure boyos
Pavement Section Required for safety and provide access
Minimum Depth of Cover to pedestrians at all times.

Police & Fire Dept. to be notified 24 hours prior to start: YES ____ NO____

pedestrian safety shall be maintained at all times

SUBMIT COPY OF TEST RESULTS TO CITY

SEE REVERSE SIDE FOR GENERAL PROVISIONS APPLICABLE TO ALL PERMIT WORK

PERMIT IS VALID WHEN SIGNED

Any omission on the part of the City to specify on this permit any rule, regulation, provision, or specification shall not excuse the permittee from complying with all requirements of law and appropriate ordinances and all applicable regulations, provisions, and specifications adopted by the City.

ISSUE FOR CITY ENGINEER

Anna McRoy

INSPECTION RECORD

Date	Comments	Insp.	Hrs. Charged

NOTE: 1 hr. Minimum charge per inspection stop

Hours forwarded from reverse side: _____

TOTAL HOURS CHARGED: _____

FEES

PERMIT FEE: 100 To Acct. #3306

RESTORE/ INSPECT DEPOSIT: _____ To CN # ____

STREET CUT FEE: _____ TO ACCT #3304

TOTAL: 100

☐ All charges collected at permit insurance

☐ All charges to be billed to

CN # _____

REV. Date 3/98

APPENDIX F: REPORT DISTRIBUTION LIST

Copies of this report have been mailed to the attention of the following parties:

Seung Lee
German Autocraft
301 E. 14th Street
San Leandro, California 94577

Scott O. Seery
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, #250
Alameda, California 94502-6577

Mike Bakaldin
City of San Leandro Fire Department
835 E. 14th Street, Suite 200
San Leandro, California 94577